







Transportation Planning Division
ATIS Roads Centerline
 Status Report

AACE Winter Meeting - Yuma
 January 12, 2001
 Joe Breyer - Works Consulting




Who's counting on us - ADOT

- TPD Data Section
 - Photo Log Van
 - State Highway Log
 - HPMS Tools
 - ATIS Image Viewer
 - Rural Counting Policy
 - Traffic Segments
 - Traffic Clusters
- Traffic (Crash) Records
 - ALISS DE Re-write
 - Safety Analysis Tools
- Other Consultants
 - LOD study
- Bridge Group
 - NBI bridge locations
- Utilities Section
 - RR crossing locations




Where we're going

- Complete GIS representation of roadways in electronic form with basic attributes
- Best of ADOT's and Best of local gov't combined
- Dynamic segmentation deployed statewide on all jurisdictional systems
- Carry forth established databases
- Carry forth established business tools (apps)




Who else is counting on us

- Research
 - Traffic Data Resource
 - OS/OW (best path)
 - Signing/Striping
 - Other feature inventory's based upon LRS
 - HCRS
- Federal Gov't
 - FGDC/NSDI
 - FHWA/OHIM/HPMS
 - USGS
- Local Gov't
 - Original Partners in Cochise, Pima, & Navajo County and Bullhead City
 - MAG centerline effort
 - MAG ADUS effort
 - Future partners
 - All Counties
 - All Federal Lands
 - Cities as necessary
 - Vision 21




Where we've been (before March 1999)

- Stagnant data (e-centerline) development
- Incomplete e-roads miss 20% (?) of the public road centerlines
- Out of date naming of local roads
- No support for address geocoding
- Absolutely no standards for cross-jurisdictional data sharing

Partners

- A+ Partners
 - Cochise County!
 - Maricopa County...
- 100% coverage
 - Pima County
 - Yavapai County
 - Navajo Nation
- Good Expectations
 - Mohave County
 - Yuma County
 - Apache County
 - Navajo County
 - Coconino County
 - Pinal County
 - Gila County

Who's Left

- Counties
 - Greenlee County
 - Santa Cruz County
 - Graham County
 - La Paz County
- Tribes/Nations
 - Tohono O'Odham
 - Many others
- Federal
 - Park Service
 - Forest Service
 - BLM
- Cities
 - Flagstaff
 - Show Low
 - Others as needed



Bulk Integration Process

- Swift methodology for combining the best centerlines from the available jurisdictions
 - Already accomplished in Cochise County
 - Ready to go soon in Maricopa, Pima, and Yavapai.
 - Goals- all counties to have their own locally maintained GIS centerline of all roads – not just maintained roads



Specialized Tools (to get the centerlines)

- GPS Capture
 - Centerline Data Collection streamlined
- GPS Tools for ArcView
 - An ArcView Extension
 - Provides plan and profile views
 - Generates shapes from any GPS engine system



Other BIG Benefits

- Long Term Maintenance
 - One stop solution available from ADOT
 - Statewide user community
- Shared Applications
 - HPMS submittals made easy
 - Crash Data entry – at the local level??
 - “New Data” generation and maintenance
 - LTAP Work Management
 - “Plug-in” geocoders for your proprietary applications



More Specialized Tools

- LRS Tools for ArcView
 - GPS trace data processed to shapefiles and attributed with to accommodate transfer to ATIS Roads.
 - Name
 - Owned and Maintained
 - Not-Owned but Maintained
 - Pavement Surface
 - Traffic Volume stratification (which of 5 ranges)
 - Address Ranges (optional)



Other Capabilities

- Address Ranges
 - Available and included
 - need local data quality ownership
 - Lots of support from those who are partners
 - Optional use – Can your Assessor or Health Dept provide the B/C to tip in favor of doing this QC work?
- Truck Routing
 - Compatibility is installed
 - Tell us about your one-ways
- Upgraded Photo Log Van
 - ATIS tables feed Photo Imaging vehicle
 - Can be used on local roads (stay tuned)



Deployment

- GIS coaching by ADOT and Works Consulting
- Strong interest in maintaining support through Vision 21
- IGA is necessary to promote good schedule adherence
- Can we finish in “X” years? – with local cooperation – YES!!



Thanks!!

- To arrange a meeting call:
– ADOT – 602-712-8165

